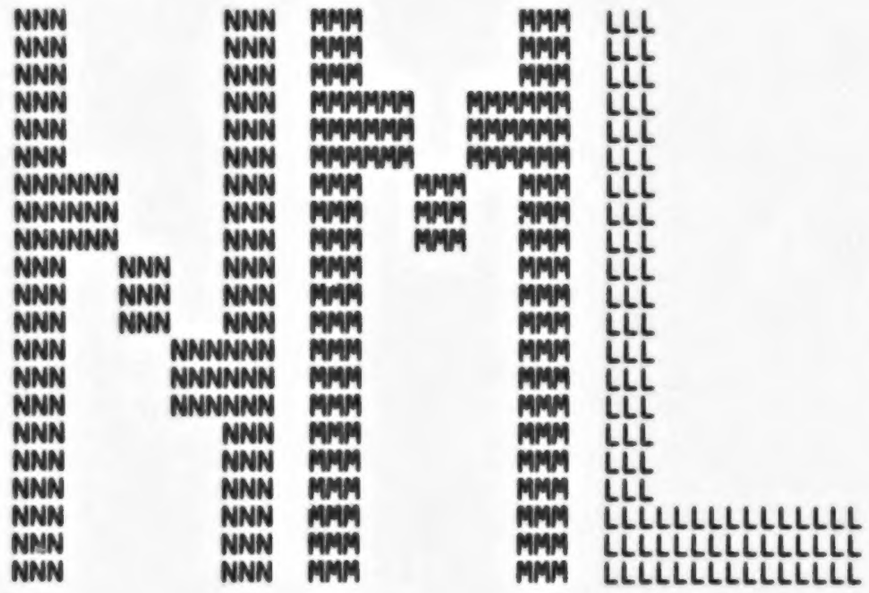
NNN NNN MMM MMM LLL
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NNN NNN MMMMMM MMMMMM LLL
NNN NNN MMMMMM MMMMMM LLL
NNN NNN MMMMMM MMMMMM LLL
NNNNNN NNN MMM MMM MMM LLL
NNNNNN NNN MMM MMM MMM LLL
NNNNNN NNN MMM MMM MMM LLL
NNN NNN NNN MMM MMM LLL
NNN NNN NNN MMM MMM LLL
NNN NNN MMM MMM LLL
NNN NNNNNN MMM MMM LLL
NNN NNNNNN MMM MMM LLL
NNN NNNNNN MMM MMM LLL
NNN NNN MMM MMM LLL
NNN NNN MMM MMM LLL
NNN NNN MMM MMM LLL
NNN NNN MMM MMM LLLLLLLLLLLLLLL
NNN NNN MMM MMM LLLLLLLLLLLLLLL
NNN NNN MMM MMM LLLLLLLLLLLLLLL

FILEID**NMLZERO

```
NN       NN  MM       MM  LL          ZZZZZZZZZZ  EEEEEEEEEE  RRRRRRRR      000000
NN       NN  MM       MM  LL          ZZZZZZZZZZ  EEEEEEEEEE  RRRRRRRR      000000
NN       NN  MMMM   MMMM  LL                ZZ    EE          RR      RR  00      00
NN       NN  MMMM   MMMM  LL               ZZ     EE          RR      RR  00      00
NNNN     NN  MM  MM  MM  MM  LL            ZZ      EE          RR      RR  00      00
NNNN     NN  MM  MM  MM  MM  LL           ZZ       EE          RR      RR  00      00
NN  NN   NN  MM      MM  MM  LL          ZZ        EEEEEEEE    RRRRRRRR    00      00
NN  NN   NN  MM      MM  MM  LL         ZZ         EEEEEEEE    RRRRRRRR    00      00
NN    NNNN  MM      MM  MM  LL       ZZ           EE          RR   RR     00      00
NN    NNNN  MM      MM  MM  LL       ZZ           EE          RR   RR     00      00
NN      NN  MM      MM  MM  LL     ZZ             EE          RR     RR   00      00      ....
NN      NN  MM      MM  MM  LL     ZZ             EE          RR     RR   00      00      ....
NN      NN  MM      MM  MM  LLLLLLLLLL  ZZZZZZZZZZ  EEEEEEEEEE  RR      RR    000000       ....
NN      NN  MM      MM  MM  LLLLLLLLLL  ZZZZZZZZZZ  EEEEEEEEEE  RR      RR    000000       ....

LL            IIIIII     SSSSSSSS
LL            IIIIII     SSSSSSSS
LL              II     SS
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LL              II       SSSSSS
LL              II             SS
LL              II             SS
LL              II             SS
LL              II             SS
LLLLLLLLLL    IIIIII    SSSSSSSS
LLLLLLLLLL    IIIIII    SSSSSSSS
```

```
;  1     0001  0 %TITLE 'NML ZERO counters module'
;  2     0002  0 MODULE NML$ZERO (
;  3     0003  0                 LANGUAGE (BLISS32),
;  4     0004  0                 ADDRESSING_MODE (EXTERNAL=GENERAL),
;  5     0005  0                 ADDRESSING_MODE (NONEXTERNAL=GENERAL),
;  6     0006  0                 IDENT = 'V04-000'
;  7     0007  0                 ) =
;  8     0008  1 BEGIN
;  9     0009  1 !
; 10     0010  1 !**********************************************************************
; 11     0011  1 !*                                                                    *
; 12     0012  1 !*  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY                           *
; 13     0013  1 !*  DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.            *
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; 18     0018  1 !*  INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR  ANY  OTHER  *
; 19     0019  1 !*  COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY  *
; 20     0020  1 !*  OTHER PERSON.  NO TITLE TO AND OWNERSHIP OF  THE  SOFTWARE IS  HEREBY  *
; 21     0021  1 !*  TRANSFERRED.                                                       *
; 22     0022  1 !*                                                                    *
; 23     0023  1 !*  THE INFORMATION IN THIS SOFTWARE IS  SUBJECT TO CHANGE WITHOUT NOTICE  *
; 24     0024  1 !*  AND  SHOULD  NOT  BE  CONSTRUED AS  A COMMITMENT BY DIGITAL EQUIPMENT  *
; 25     0025  1 !*  CORPORATION.                                                       *
; 26     0026  1 !*                                                                    *
; 27     0027  1 !*  DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE  OR  RELIABILITY OF ITS  *
; 28     0028  1 !*  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.            *
; 29     0029  1 !*                                                                    *
; 30     0030  1 !*                                                                    *
; 31     0031  1 !**********************************************************************
; 32     0032  1 !
; 33     0033  1
; 34     0034  1 !++
; 35     0035  1 ! FACILITY:  DECnet-VAX Network Management Listener
; 36     0036  1 !
; 37     0037  1 ! ABSTRACT:
; 38     0038  1 !
; 39     0039  1 !    These routines return volatile data base information in response to
; 40     0040  1 !    an NCP ZERO command message.
; 41     0041  1 !
; 42     0042  1 ! ENVIRONMENT:  VAX/VMS Operating System
; 43     0043  1 !
; 44     0044  1 ! AUTHOR:  Kathy Perko
; 45     0045  1 !
; 46     0046  1 ! CREATION DATE:  30-Aug-1982
; 47     0047  1 !
; 48     0048  1 ! MODIFIED BY:
; 49     0049  1 !       V03-003 MKP0003         Kathy Perko             6-Jan-1983
; 50     0050  1 !               Add dummy table entry for X25 Access Module entity.
; 51     0051  1 !
; 52     0052  1 !       V03-002 MKP0002         Kathy Perko             24-June-1983
; 53     0053  1 !               Add dummy table entries for Service Adjacency entity and
; 54     0054  1 !               NI Configurator entity.
; 55     0055  1 !
; 56     0056  1 !       V03-001 MKP0001         Kathy Perko             9-Oct-1982
; 57     0057  1 !               Add Area entity, and null entries for adjacent node
```

```
;   58          0058  1 !                 entities (which are read only) to tables.
;   59          0059  1 !
;   60          0060  1 !--
```

```
;    62          0061  1 %SBTTL 'Declarations'
;    63          0062  1
;    64          0063  1 !
;    65          0064  1 ! TABLE OF CONTENTS:
;    66          0065  1 !
;    67          0066  1
;    68          0067  1 FORWARD ROUTINE
;    69          0068  1     NML$ZERO              : NOVALUE,
;    70          0069  1     NML_CALL_ZERO         : NOVALUE,
;    71          0070  1     NML_CALL_ZERO_NODE    : NOVALUE,
;    72          0071  1     NML_ZEROPLURAL        : NOVALUE,
;    73          0072  1     NML_ZERO_KNOWN        : NOVALUE,
;    74          0073  1     NML_ZERONONODES       : NOVALUE,
;    75          0074  1     NML_ZERO_ENTITY       : NOVALUE,
;    76          0075  1     NML_ZERO_NODE         : NOVALUE,
;    77          0076  1     NML_ZEROREMOTES       : NOVALUE;
;    78          0077  1
;    79          0078  1 !
;    80          0079  1 ! INCLUDE FILES:
;    81          0080  1 !
;    82          0081  1
;    83          0082  1 LIBRARY 'LIB$:NMLLIB.L32';
;    84          0083  1 LIBRARY 'SHRLIB$:NMALIBRY.L32';
;    85          0084  1 LIBRARY 'SYS$LIBRARY:STARLET.L32';
;    86          0085  1
;    87          0086  1 !
;    88          0087  1 ! OWN STORAGE:
;    89          0088  1 !
;    90          0089  1
;    91          0090  1 OWN
;    92          0091  1     NML$T_P2BUFFER : VECTOR [NML$K_P2BUFLEN];
;    93          0092  1 BIND
;    94          0093  1     NML$Q_P2BFDSC = UPLIT (NML$K_P2BUFLEN, NML$T_P2BUFFER) : DESCRIPTOR;
;    95          0094  1
;    96          0095  1 OWN
;    97          0096  1     NML$T_ENTBUFFER : VECTOR [32],
;    98          0097  1     NML$Q_ENTBFDSC  : DESCRIPTOR
;    99          0098  1                       INITIAL (0, NML$T_ENTBUFFER);
;   100          0099  1
;   101          0100  1 !
;   102          0101  1 ! EXTERNAL REFERENCES:
;   103          0102  1 !
;   104          0103  1
;   105          0104  1 $NML_EXTDEF;
;   106          0105  1
;   107          0106  1 EXTERNAL ROUTINE
;   108          0107  1     LIB$ESTABLISH : ADDRESSING_MODE (GENERAL),
;   109          0108  1     LIB$REVERT    : ADDRESSING_MODE (GENERAL),
;   110          0109  1     NML$BLD_REPLY,
;   111          0110  1     NML$BLDP2,
;   112          0111  1     NML$ERROR_1,
;   113          0112  1     NML$ERROR_2,
;   114          0113  1     NML$GETEXEID,
;   115          0114  1     NML$GETINFTABS,
;   116          0115  1     NML$GET_ENTITY_IDS,
;   117          0116  1     NML$MAINHANDLER,
;   118          0117  1     NML$NETQIO,
```

```
;  119          0118  1     NML$SEND;
;  120          0119  1
```

```
;  122          0120  1 !
;  123          0121  1 ! Macro to build dispatch table for an entity.
;  124          0122  1 !
;  125          0123  1 MACRO $TAB (TAB,
;  126          0124  1     DISPATCH_RTN,
;  127        M 0125  1     ZERO_RTN,       ZERO_KNO_RTN) =
;  128        M 0126  1
;  129        M 0127  1         OWN TAB : BBLOCK [%LENGTH * 4] INITIAL (
;  130        M 0128  1         $PIC (DISPATCH_RTN, TAB),
;  131        M 0129  1         $PIC (ZERO_RTN, TAB),
;  132        M 0130  1         $PIC (ZERO_KNO_RTN,TAB))
;  133          0131  1                 %,
;  134          0132  1
;  135        M 0133  1     $PIC (ADDR,TAB) =
;  136        M 0134  1                 %IF %IDENTICAL (ADDR, 0)
;  137        M 0135  1                 %THEN   LONG (0)
;  138        M 0136  1                 %ELSE LONG (%NAME (ADDR) - %NAME (TAB))
;  139        M 0137  1                 %FI
;  140          0138  1                 %;
;  141          0139  1
;  142          0140  1
;  143          0141  1 !
;  144          0142  1 ! Dispatch tables.  There is one table for each internal NML entity (NML
;  145          0143  1 ! internal entities are broken down more that NICE entities).  The table
;  146          0144  1 ! specifies the following information about the entity:
;  147          0145  1 !       The address of the dispatch routine in this module for the entity.
;  148          0146  1 !               The dispatch routines vary depending on the different
;  149          0147  1 !               formats the entities can have.
;  150          0148  1 !       The addresses of the routines which perform the requested change:
;  151          0149  1 !               - Zero single entity
;  152          0150  1 !               - Zero known entities
;  153          0151  1 !
;  154        P 0152  1 $TAB (LINE_TAB,                               ! NML$C_LINE
;  155        P 0153  1     NML_CALL_ZERO,
;  156          0154  1     NML_ZERO_ENTITY,    NML_ZERO_KNOWN);
;  157          0155  1
;  158          0156  1 BIND LOGGING_TAB = UPLIT (0);
;  159          0157  1
;  160          0158  1 BIND SINK_TAB = UPLIT (0);
;  161          0159  1
;  162        P 0160  1 $TAB (NODE_TAB,                               ! NML$C_NODE
;  163        P 0161  1     NML_CALL_ZERO_NODE,
;  164          0162  1     NML_ZERO_NODE,      NML_ZEROKNONODES);
;  165          0163  1
;  166        P 0164  1 $TAB (NODEBYNAME_TAB,                 ! NML$C_NODEBYNAME
;  167        P 0165  1     NML_CALL_ZERO_NODE,
;  168          0166  1     NML_ZERO_NODE,      NML_ZEROKNONODES);
;  169          0167  1
;  170          0168  1 BIND LOOPNODE_TAB = UPLIT (0);
;  171          0169  1
;  172          0170  1 BIND ADJACENT_NODE_TAB = UPLIT (0);
;  173          0171  1
;  174        P 0172  1 $TAB (EXECUTOR_TAB,                           ! NML$C_EXECUTOR
;  175        P 0173  1     NML_CALL_ZERO_NODE,
;  176          0174  1     NML_ZERO_NODE,      NML_ZEROKNONODES);
;  177          0175  1
;  178          0176  1 BIND OBJECT_TAB = UPLIT (0);
```

```
;  179          0177  1
;  180        P 0178  1 $TAB (CIRCUIT_TAB,                          ! NML$C_CIRCUIT
;  181        P 0179  1     NML_CALL_ZERO,
;  182          0180  1     NML_ZERO_ENTITY,    NML_ZERO_KNOWN);
;  183          0181  1
;  184          0182  1 BIND CIRCUIT_ADJACENT_TAB = UPLIT (0);
;  185          0183  1
;  186          0184  1 BIND CIRCUIT_ADJ_SRV_TAB = UPLIT (0);
;  187          0185  1
;  188          0186  1 BIND AREA_TAB = UPLIT (0);
;  189          0187  1
;  190          0188  1 BIND X25_ACCESS_TAB = UPLIT (0);
;  191          0189  1
;  192          0190  1 BIND PROT_NET_TAB = UPLIT (0);
;  193          0191  1
;  194        P 0192  1 $TAB (PROT_DTE_TAB,                         ! NML$C_PROT_DTE
;  195        P 0193  1     NML_CALL_ZERO,
;  196          0194  1     NML_ZERO_ENTITY,    NML_ZERO_KNOWN);
;  197          0195  1
;  198          0196  1 BIND PROT_GRP_TAB = UPLIT (0);
;  199          0197  1
;  200        P 0198  1 $TAB (X25_SERV_TAB,                         ! NML$C_X25_SERV
;  201        P 0199  1     NML_CALL_ZERO,
;  202          0200  1     NML_ZERO_ENTITY,    0);
;  203          0201  1
;  204          0202  1 BIND X25_SERV_DEST_TAB = UPLIT (0);
;  205          0203  1
;  206          0204  1 BIND TRACE_TAB = UPLIT (0);
;  207          0205  1
;  208          0206  1 BIND TRACEPNT_TAB = UPLIT (0);
;  209          0207  1
;  210        P 0208  1 $TAB (X29_SERV_TAB,                         ! NML$C_X29_SERV
;  211        P 0209  1     NML_CALL_ZERO,
;  212          0210  1     NML_ZERO_ENTITY,    0);
;  213          0211  1
;  214          0212  1 BIND X29_SERV_DEST_TAB = UPLIT (0);
;  215          0213  1
;  216          0214  1 BIND NI_CONFIG_TAB = UPLIT (0);
;  217          0215  1
;  218          0216  1 BIND LINK_TAB = UPLIT (0);
;  219          0217  1
;  220          0218  1
;  221          0219  1 !
;  222          0220  1 ! Table table.  Contains pointers to Dispatch tables for NML entities.
;  223          0221  1 ! Indexed by NML$C_entity definitions.
;  224          0222  1 !
;  225          0223  1 OWN TABLE_TAB : VECTOR [NML$C_MAXENTITY] INITIAL (
;  226          0224  1         $PIC (LINE_TAB, TABLE_TAB),
;  227          0225  1         $PIC (LOGGING_TAB,TABLE_TAB),
;  228          0226  1         $PIC (SINK_TAB,TABLE_TAB),
;  229          0227  1         $PIC (NODE_TAB,TABLE_TAB),
;  230          0228  1         $PIC (NODEBYNAME_TAB,TABLE_TAB),
;  231          0229  1         $PIC (LOOPNODE_TAB,TABLE_TAB),
;  232          0230  1         $PIC (ADJACENT_NODE_TAB,TABLE_TAB),
;  233          0231  1         $PIC (EXECUTOR_TAB,TABLE_TAB),
;  234          0232  1         $PIC (OBJECT_TAB,TABLE_TAB),
;  235          0233  1         $PIC (CIRCUIT_TAB,TABLE_TAB),
```

```
;  236     0234  1          $PIC (CIRCUIT_ADJACENT_TAB,TABLE_TAB),
;  237     0235  1          $PIC (CIRCUIT_ADJ_SRV_TAB,TABLE_TAB),
;  238     0236  1          $PIC (AREA_TAB,TABLE_TAB),
;  239     0237  1          $PIC (X25_ACCESS_TAB,TABLE_TAB),
;  240     0238  1          $PIC (PROT_NET_TAB,TABLE_TAB),
;  241     0239  1          $PIC (PROT_DTE_TAB,TABLE_TAB),
;  242     0240  1          $PIC (PROT_GRP_TAB,TABLE_TAB),
;  243     0241  1          $PIC (X25_SERV_TAB,TABLE_TAB),
;  244     0242  1          $PIC (X25_SERV_DEST_TAB,TABLE_TAB),
;  245     0243  1          $PIC (TRACE_TAB,TABLE_TAB),
;  246     0244  1          $PIC (TRACEPNT_TAB,TABLE_TAB),
;  247     0245  1          $PIC (X29_SERV_TAB,TABLE_TAB),
;  248     0246  1          $PIC (X29_SERV_DEST_TAB,TABLE_TAB),
;  249     0247  1          $PIC (NI_CONFIG_TAB,TABLE_TAB),
;  250     0248  1          $PIC (LINK_TAB,TABLE_TAB));
```

```
;  252          0249  1 %SBTTL 'NML$ZERO  Zero counters main routine'
;  253          0250  1 GLOBAL ROUTINE NML$ZERO : NOVALUE =
;  254          0251  1
;  255          0252  1 !++
;  256          0253  1 ! FUNCTIONAL DESCRIPTION:
;  257          0254  1 !
;  258          0255  1 !       This routine dispatches the zero function to the proper routine
;  259          0256  1 !       according to the entity type.
;  260          0257  1 !
;  261          0258  1 ! IMPLICIT INPUTS:
;  262          0259  1 !
;  263          0260  1 !       NML$GB_OPTIONS contains the option byte parsed from the NICE message.
;  264          0261  1 !       NML$GB_ENTITY_CODE contains the entity code.
;  265          0262  1 !
;  266          0263  1 !--
;  267          0264  1
;  268          0265  2 BEGIN
;  269          0266  2
;  270          0267  2 MAP
;  271          0268  2     NML$GB_ENTITY_FORMAT : BYTE SIGNED,
;  272          0269  2     NML$GB_OPTIONS : BBLOCK [1];
;  273          0270  2
;  274          0271  2 LOCAL
;  275          0272  2     ZERO_TABLE : REF BBLOCK,    ! Dispatch table reference
;  276          0273  2     RTN_ADDR,                   ! Temporary routine address
;  277          0274  2     PARSE_TAB,                  ! Address of NICE message parsing
;  278          0275  2                                 !       table.
;  279          0276  2     ZERO_RTN;                   ! Address of routine to perform
;  280          0277  2                                 !       zero requested by NICE
;  281          0278  2                                 !       message.
;  282          0279  2
;  283          0280  2
;  284          0281  2 !
;  285          0282  2 ! Get address of entity's dispatch table.  The addresses are stored as offsets
;  286          0283  2 ! to make NMLSHR PIC.  Change the offset into a useable address.
;  287          0284  2 !
;  288          0285  2 ZERO_TABLE = .TABLE_TAB [.NML$GL_NML_ENTITY] + TABLE_TAB;
;  289          0286  2 IF .ZERO_TABLE NEQA 0 THEN
;  290          0287  3     BEGIN
;  291          0288  3     RTN_ADDR = .ZERO_TABLE [ZER$L_DISPATCH] + .ZERO_TABLE;
;  292          0289  3         !
;  293          0290  3         !  Go to dispatch table for the entity specified in the NICE message.
;  294          0291  3         !  Get the address of the routine which performs the type of change
;  295          0292  3         !  requested.
;  296          0293  3         !
;  297          0294  3         IF .RTN_ADDR NEQA .ZERO_TABLE THEN
;  298          0295  4             BEGIN
;  299          0296  4             !
;  300          0297  4             ! Each function's portion of the entity's dispatch table contains
;  301          0298  4             ! the addresses of two zero routines.  These routines do the
;  302          0299  4             ! following:
;  303          0300  4             !       - Zero a single entity
;  304          0301  4             !       - Zero known entities
;  305          0302  4             !
;  306          0303  4             IF .NML$GB_ENTITY_FORMAT EQL NMA$C_ENT_KNO THEN
;  307          0304  4                 ZERO_RTN = .ZERO_TABLE [ZER$L_KNOWN]
;  308          0305  4             ELSE
```

```
;   309         0306  4            ZERO_RTN = .ZERO_TABLE [ZER$L_ENTITY];
;   310         0307  4
;   311         0308  4            ! The routine addresses are stored as offsets (to make NMLSHR PIC).
;   312         0309  4            ! Make the offset into a callable routine address.
;   313         0310  4            !
;   314         0311  4            IF .ZERO_RTN NEQ 0 THEN
;   315         0312  5                BEGIN
;   316         0313  5                ZERO_RTN = .ZERO_RTN + .ZERO_TABLE;
;   317         0314  5                !
;   318         0315  5                ! Call change routine.
;   319         0316  5                !
;   320         0317  5                (.RTN_ADDR) (.NML$GL_NML_ENTITY,
;   321         0318  5                             .ZERO_RTN);
;   322         0319  5                END
;   323         0320  4            ELSE
;   324         0321  4                NML$ERROR_1 (NMA$C_STS_FUN);
;   325         0322  4            END
;   326         0323  3        ELSE
;   327         0324  3            NML$ERROR_1 (NMA$C_STS_FUN);
;   328         0325  3        END
;   329         0326  2    ELSE
;   330         0327  2        NML$ERROR_1 (NMA$C_STS_FUN);
;   331         0328  1    END;                                 ! End of NML$ZERO

                                                                .TITLE  NML$ZERO NML ZERO counters module
                                                                .IDENT  \V04-000\

                                                                .PSECT  $PLIT$,NOWRT,NOEXE,2

                                00000068  00000 P.AAA:   .LONG    104
                                00000000' 00004         .ADDRESS NML$T_P2BUFFER
                                00000000  00008 P.AAB:   .LONG    0
                                00000000  0000C P.AAC:   .LONG    0
                                00000000  00010 P.AAD:   .LONG    0
                                00000000  00014 P.AAE:   .LONG    0
                                00000000  00018 P.AAF:   .LONG    0
                                00000000  0001C P.AAG:   .LONG    0
                                00000000  00020 P.AAH:   .LONG    0
                                00000000  00024 P.AAI:   .LONG    0
                                00000000  00028 P.AAJ:   .LONG    0
                                00000000  0002C P.AAK:   .LONG    0
                                00000000  00030 P.AAL:   .LONG    0
                                00000000  00034 P.AAM:   .LONG    0
                                00000000  00038 P.AAN:   .LONG    0
                                00000000  0003C P.AAO:   .LONG    0
                                00000000  00040 P.AAP:   .LONG    0
                                00000000  00044 P.AAQ:   .LONG    0
                                00000000  00048 P.AAR:   .LONG    0

                                                                .PSECT  $OWN$,NOEXE,2

                                          00000 NML$T_P2BUFFER:
                                                        .BLKB   416
                                          001A0 NML$T_ENTBUFFER:
                                                        .BLKB   128
                                00000000  00220 NML$Q_ENTBFDSC:
```

```
                                        .LONG   0
00000000' 00224                         .ADDRESS NML$T_ENTBUFFER                                        ;
00000000V 00228 LINE_TAB:
                                        .LONG   <NML_CALL_ZERO-LINE_TAB>                                ;
00000000V 0022C                         .LONG   <NML_ZERO_ENTITY-LINE_TAB>                              ;
00000000V 00230                         .LONG   <NML_ZERO_KNOWN-LINE_TAB>                               ;
          00234                         .BLKB   4
00000000V 00238 NODE_TAB:
                                        .LONG   <NML_CALL_ZERO_NODE-NODE_TAB>                           ;
00000000V 0023C                         .LONG   <NML_ZERO_NODE-NODE_TAB>                                ;
00000000V 00240                         .LONG   <NML_ZERORNONODES-NODE_TAB>                             ;
          00244                         .BLKB   4
00000000V 00248 NODEBYNAME_TAB:
                                        .LONG   <NML_CALL_ZERO_NODE-NODEBYNAME_TAB>                     ;
00000000V 0024C                         .LONG   <NML_ZERO_NODE-NODEBYNAME_TAB>                          ;
00000000V 00250                         .LONG   <NML_ZERORNONODES-NODEBYNAME_TAB>                       ;
          00254                         .BLKB   4
00000000V 00258 EXECUTOR_TAB:
                                        .LONG   <NML_CALL_ZERO_NODE-EXECUTOR_TAB>                       ;
00000000V 0025C                         .LONG   <NML_ZERO_NODE-EXECUTOR_TAB>                            ;
00000000V 00260                         .LONG   <NML_ZERORNONODES-EXECUTOR_TAB>                         ;
          00264                         .BLKB   4
00000000V 00268 CIRCUIT_TAB:
                                        .LONG   <NML_CALL_ZERO-CIRCUIT_TAB>                             ;
00000000V 0026C                         .LONG   <NML_ZERO_ENTITY-CIRCUIT_TAB>                           ;
00000000V 00270                         .LONG   <NML_ZERO_KNOWN-CIRCUIT_TAB>                            ;
          00274                         .BLKB   4
00000000V 00278 PROT_DTE_TAB:
                                        .LONG   <NML_CALL_ZERO-PROT_DTE_TAB>                            ;
00000000V 0027C                         .LONG   <NML_ZERO_ENTITY-PROT_DTE_TAB>                          ;
00000000V 00280                         .LONG   <NML_ZERO_KNOWN-PROT_DTE_TAB>                           ;
          00284                         .BLKB   4
00000000V 00288 X25_SERV_TAB:
                                        .LONG   <NML_CALL_ZERO-X25_SERV_TAB>                            ;
00000000V 0028C                         .LONG   <NML_ZERO_ENTITY-X25_SERV_TAB>                          ;
00000000  00290                         .LONG   0                                                       ;
          00294                         .BLKB   4
00000000V 00298 X29_SERV_TAB:
                                        .LONG   <NML_CALL_ZERO-X29_SERV_TAB>                            ;
00000000V 0029C                         .LONG   <NML_ZERO_ENTITY-X29_SERV_TAB>                          ;
00000000  002A0                         .LONG   0                                                       ;
          002A4                         .BLKB   4
00000000* 002A8 TABLE_TAB:
                                        .LONG   <LINE_TAB-TABLE_TAB>                                    ;
00000000* 002AC                         .LONG   <LOGGING_TAB-TABLE_TAB>                                 ;
00000000* 002B0                         .LONG   <SINK_TAB-TABLE_TAB>                                    ;
00000000* 002B4                         .LONG   <NODE_TAB-TABLE_TAB>                                    ;
00000000* 002B8                         .LONG   <NODEBYNAME_TAB-TABLE_TAB>                              ;
00000000* 002BC                         .LONG   <LOOPNODE_TAB-TABLE_TAB>                                ;
00000000* 002C0                         .LONG   <ADJACENT_NODE_TAB-TABLE_TAB>                           ;
00000000* 002C4                         .LONG   <EXECUTOR_TAB-TABLE_TAB>                                ;
00000000* 002C8                         .LONG   <OBJECT_TAB-TABLE_TAB>                                  ;
00000000* 002CC                         .LONG   <CIRCUIT_TAB-TABLE_TAB>                                 ;
00000000* 002D0                         .LONG   <CIRCUIT_ADJACENT_TAB-TABLE_TAB>                        ;
00000000* 002D4                         .LONG   <CIRCUIT_ADJ_SRV_TAB-TABLE_TAB>                         ;
00000000* 002D8                         .LONG   <AREA_TAB-TABLE_TAB>                                    ;
00000000* 002DC                         .LONG   <X25_ACCESS_TAB-TABLE_TAB>                              ;
```

```
00000000* 002E0         .LONG   <PROT_NET_TAB-TABLE_TAB>
00000000* 002E4         .LONG   <PROT_DTE_TAB-TABLE_TAB>
00000000* 002E8         .LONG   <PROT_GRP_TAB-TABLE_TAB>
00000000* 002EC         .LONG   <X25_SERV_TAB-TABLE_TAB>
00000000* 002F0         .LONG   <X25_SERV_DEST_TAB-TABLE_TAB>
00000000* 002F4         .LONG   <TRACE_TAB-TABLE_TAB>
00000000* 002F8         .LONG   <TRACEPNT_TAB-TABLE_TAB>
00000000* 002FC         .LONG   <X29_SERV_TAB-TABLE_TAB>
00000000* 00300         .LONG   <X29_SERV_DEST_TAB-TABLE_TAB>
00000000* 00304         .LONG   <NI_CONFIG_TAB-TABLE_TAB>
00000000* 00308         .LONG   <LINK_TAB-TABLE_TAB>
          0030C         .BLKB   4

NML$Q_P2BFDSC=          P.AAA
LOGGING_TAB=            P.AAB
SINK_TAB=               P.AAC
LOOPNODE_TAB=           P.AAD
ADJACENT_NODE_TAB=      P.AAE
OBJECT_TAB=             P.AAF
CIRCUIT_ADJACENT_TAB=
                        P.AAG
CIRCUIT_ADJ_SRV_TAB=P.AAH
AREA_TAB=               P.AAI
X25_ACCESS_TAB=         P.AAJ
PROT_NET_TAB=           P.AAK
PROT_GRP_TAB=           P.AAL
X25_SERV_DEST_TAB=      P.AAM
TRACE_TAB=              P.AAN
TRACEPNT_TAB=           P.AAO
X29_SERV_DEST_TAB=      P.AAP
NI_CONFIG_TAB=          P.AAQ
LINK_TAB=               P.AAR
                .EXTRN  NML$GB_EVTSRCTYP
                .EXTRN  NML$GQ_EVTSRCDSC
                .EXTRN  NML$GW_EVTCLASS
                .EXTRN  NML$GB_EVTMSKTYP
                .EXTRN  NML$GQ_EVTMSKDSC
                .EXTRN  NML$GW_EVTSNKADR
                .EXTRN  NML$GW_ACP_CHAN
                .EXTRN  NML$GL_LOGMASK, NML$GQ_ENTSTRDSC
                .EXTRN  NML$AB_QIOBUFFER
                .EXTRN  NML$GQ_QIOBFDSC
                .EXTRN  NML$AB_EXEBUFFER
                .EXTRN  NML$GL_EXEDATPTR
                .EXTRN  NML$GQ_EXEDATDSC
                .EXTRN  NML$GQ_EXEBFDSC
                .EXTRN  NML$AB_RCVBUFFER
                .EXTRN  NML$GQ_RCVBFDSC
                .EXTRN  NML$AB_SNDBUFFER
                .EXTRN  NML$GQ_SNDBFDSC
                .EXTRN  NML$GL_RCVDATLEN
                .EXTRN  NML$AB_CPTABLE, NML$AB_MSGBLOCK
                .EXTRN  NML$AB_ENTITY_ID
                .EXTRN  NML$AB_QUALIFIER_ID
                .EXTRN  NML$AB_ENTITYDATA
                .EXTRN  NML$AB_NML_NMV, NML$AB_PRMSEM
                .EXTRN  NML$AB_RECBUF, NML$AL_ENTINFTAB
```

```
                                                .EXTRN  NML$AL_PERMINFTAB
                                                .EXTRN  NML$AW_PRM_DES, NML$GB_CMD_VER
                                                .EXTRN  NML$GB_ENTITY_CODE
                                                .EXTRN  NML$GB_ENTITY_FORMAT
                                                .EXTRN  NML$GL_QUALIFIER_PST
                                                .EXTRN  NML$GB_QUALIFIER_FORMAT
                                                .EXTRN  NML$GB_FUNCTION
                                                .EXTRN  NML$GB_INFO, NML$GB_OPTIONS
                                                .EXTRN  NML$GL_PRMCODE, NML$GL_PRS_FLGS
                                                .EXTRN  NML$GL_NML_ENTITY
                                                .EXTRN  NML$GQ_NETNAMDSC
                                                .EXTRN  NML$GQ_RECBFDSC
                                                .EXTRN  NML$GW_PRMDESCNT
                                                .EXTRN  LIB$ESTABLISH, LIB$REVERT
                                                .EXTRN  NML$BLD_REPLY, NML$BLDP2
                                                .EXTRN  NML$ERROR_1, NML$ERROR_2
                                                .EXTRN  NML$GETEXEID, NML$GETINFTABS
                                                .EXTRN  NML$GET_ENTITY_IDS
                                                .EXTRN  NML$MAINHANDLER
                                                .EXTRN  NML$NETQIO, NML$SEND

                                                .PSECT  $CODE$,NOWRT,2

                                  001C 00000    .ENTRY  NML$ZERO, Save R2,R3,R4                         ; 0250
                54 00000000'   00   9E 00002    MOVAB   TABLE_TAB, R4                                   ;
                52 00000000G   00   D0 00009    MOVL    NML$GL_NML_ENTITY, R2                           ; 0285
                50                  64  9E 00010    MOVAB   TABLE_TAB, R0                               ;
          51    50              6442  C1 00013    ADDL3   TABLE_TAB[R2], R0, ZERO_TABLE                   ;
                                   2A  13 00018    BEQL    3$                                          ; 0286
          53    61                51  C1 0001A    ADDL3   ZERO_TABLE, (ZERO_TABLE), RTN_ADDR              ; 0288
                51                53  D1 0001E    CMPL    RTN_ADDR, ZERO_TABLE                            ; 0294
                                   21  13 00021    BEQL    3$                                          ;
             FF 8F 00000000G    00  91 00023    CMPB    NML$GB_ENTITY_FORMAT, #-1                       ; 0303
                                   06  12 0002B    BNEQ    1$                                          ;
                50         08   A1  D0 0002D    MOVL    8(ZERO_TABLE), ZERO_RTN                         ; 0304
                                   04  11 00031    BRB     2$                                          ;
                50         04   A1  D0 00033 1$:  MOVL    4(ZERO_TABLE), ZERO_RTN                         ; 0306
                                   08  13 00037 2$:  BEQL    3$                                          ; 0311
                50                 51  C0 00039    ADDL2   ZERO_TABLE, ZERO_RTN                        ; 0313
                                   50  DD 0003C    PUSHL   ZERO_RTN                                    ; 0318
                                   52  DD 0003E    PUSHL   R2                                          ; 0317
                63                 02  FB 00040    CALLS   #2, (RTN_ADDR)                              ;
                                   04  00043    RET                                                 ; 0311
                7E                 01  CE 00044 3$:  MNEGL   #1, -(SP)                                   ; 0327
       00000000G 00                01  FB 00047    CALLS   #1, NML$ERROR_1                             ;
                                   04  0004E    RET                                                 ; 0328

; Routine Size:  79 bytes,    Routine Base:  $CODE$ + 0000
```

```
1 %SBTTL 'NML_CALL_ZERO   Zero volatile entity parameters'
1 ROUTINE NML_CALL_ZERO (ENTITY, ZERO_RTN): NOVALUE =
1
1 !++
1 ! FUNCTIONAL DESCRIPTION:
1 !
1 !       This routine dispatches to a routine to zero the specified
1 !       set of circuit counters based on the entity id format.
1 !
1 ! FORMAL INPUTS:
1 !       ENTITY          Internal NML entity code of entity to zero.
1 !       ZERO_RTN        Address of routine to perform zero requested
1 !                       by NICE message.
1 !
1 ! IMPLICIT INPUTS:
1 !
1 !       NML$GB_ENTITY_FORMAT contains the entity format code.
1 !
1 !--
1
2 BEGIN
2
2 MAP
2     NML$GB_ENTITY_FORMAT : BYTE SIGNED;
2
2 SELECTONEU .NML$GB_ENTITY_FORMAT OF
2     SET
2     [NMA$C_ENT_KNO]:              ! Known
2         NML_ZEROPLURAL (.ENTITY,          ! Entity code
2                         .ZERO_RTN,        ! Zero routine
2                         0,                ! Not used
2                         0);               ! Not used
2
2     [1 TO 16]:                    ! Entity name
2         NML_ZEROPLURAL (.ENTITY,          ! Entity code
2                         .ZERO_RTN,        ! Zero routine
2                         .NML$GB_ENTITY_FORMAT,! Id string length
2                         NML$AB_ENTITY_ID);     ! Id string address
2
2     [OTHERWISE]:
2         NML$ERROR_2 (NMA$C_STS_IDE, .NML$GB_ENTITY_CODE);       ! Option error
2     TES;
2
1 END;                              ! End of NML_CALL_ZERO
```

```
                              0000 00000 NML_CALL_ZERO:
                                           .WORD   Save nothing                        ; 0330
           50 00000000G  00  98 00002      CVTBL   NML$GB_ENTITY_FORMAT, R0            ; 0354
      FF   8F            50  91 00009      CMPB    R0, #-T                             ; 0356
                         04  12 0000D      BNEQ    1$
                         7E  7C 0000F      CLRQ    -(SP)                               ; 0357
                         11  11 00011      BRB     2$                                  ; 0358
                         50  D5 00013 1$:  TSTL    R0                                  ; 0362
```

```
                                    19  13 00015          BEQL    3$                                                          ;
                              10    50  91 00017          CMPB    R0, #16                                                     ;
                                    14  1A 0001A          BGTRU   3$                                                          ;
                          00000000G 00  9F 0001C          PUSHAB  NML$AB_ENTITY_ID                                    0363    ;
                                    50  DD 00022          PUSHL   R0                                                  0365    ;
                              7E    04  AC 7D 00024 2$:    MOVQ    ENTITY, -(SP)                                       0363    ;
                00000000V     00        04  FB 00028      CALLS   #4, NML_ZEROPLURAL                                          ;
                                        04 0002F          RET                                                                 ;
                              7E 00000000G 00 9A 00030 3$:  MOVZBL  NML$GB_ENTITY_CODE, -(SP)                           0369    ;
                              7E        09  CE 00037      MNEGL   #9, -(SP)                                                   ;
                00000000G     00        02  FB 0003A      CALLS   #2, NML$ERROR_2                                             ;
                                        04 00041          RET                                                         0372    ;

; Routine Size:  66 bytes,    Routine Base:  $CODE$ + 004F
```

```
;   378         0373  1 %SBTTL 'NML_CALL_ZERO_NODE  Zero node counters'
;   379         0374  1 ROUTINE NML_CALL_ZERO_NODE (ENTITY, ZERO_RTN) : NOVALUE =
;   380         0375  1
;   381         0376  1 !++
;   382         0377  1 ! FUNCTIONAL DESCRIPTION:
;   383         0378  1 !
;   384         0379  1 !       This routine dispatches to a routine to zero the specified set
;   385         0380  1 !       of node counters based on the entity id format.
;   386         0381  1 !
;   387         0382  1 ! FORMAL INPUTS:
;   388         0383  1 !       ENTITY          Internal NML entity code of entity to zero.
;   389         0384  1 !       ZERO_RTN        Address of routine to perform zero requested
;   390         0385  1 !                       by NICE message.
;   391         0386  1 !
;   392         0387  1 ! IMPLICIT INPUTS:
;   393         0388  1 !
;   394         0389  1 !       NML$GB_ENTITY_FORMAT contains the entity format code.
;   395         0390  1 !
;   396         0391  1 !--
;   397         0392  1
;   398         0393  2 BEGIN
;   399         0394  2
;   400         0395  2 MAP
;   401         0396  2     NML$GB_ENTITY_FORMAT : BYTE SIGNED;
;   402         0397  2
;   403         0398  2 LOCAL
;   404         0399  2     EXEC_ADR;
;   405         0400  2
;   406         0401  2 EXEC_ADR = 0;           ! Set exec address in case entity is NML$C_EXECUTOR.
;   407         0402  2 SELECTONEU .NML$GB_ENTITY_FORMAT OF
;   408         0403  2     SET
;   409         0404  2     [NMA$C_ENT_KNO]:            ! Known
;   410         0405  2         NML_ZEROPLURAL (.ENTITY,                ! No entity
;   411         0406  2                         NML_ZEROKNONODES,       ! Routine name
;   412         0407  2                         0,                      ! Not used
;   413         0408  2                         0);                     ! Not used
;   414         0409  2
;   415         0410  2     [NMA$C_ENT_ADD]:            ! Node address
;   416         0411  2         BEGIN
;   417         0412  2         IF .ENTITY EQL NML$C_EXECUTOR THEN
;   418         0413  2             NML_ZEROPLURAL (NML$C_EXECUTOR,     ! entity = executor node
;   419         0414  2                             NML_ZERO_NODE,      ! Routine name
;   420         0415  2                             2,                  ! Id string length
;   421         0416  2                             EXEC_ADR)           ! Executor node address
;   422         0417  2         ELSE
;   423         0418  2             NML_ZEROPLURAL (NML$C_NODE,         ! Entity code
;   424         0419  2                             NML_ZERO_NODE,      ! Routine address
;   425         0420  2                             2,                  ! Id string length
;   426         0421  2                             NML$AB_ENTITY_ID);  ! Id (node address) address
;   427         0422  2         END;
;   428         0423  2
;   429         0424  2     [1 TO 6]:                   ! Node name
;   430         0425  2         IF .NML$GL_NML_ENTITY EQL NML$C_EXECUTOR THEN
;   431         0426  2             NML_ZEROPLURAL (NML$C_EXECUTOR,     ! No entity
;   432         0427  2                             NML_ZERO_NODE,      ! Routine address
;   433         0428  2                             2,                  ! Id string length
;   434         0429  2                             EXEC_ADR)           ! Executor node address
```

```
      0430  2          ELSE
      0431  2              NML_ZEROPLURAL (NML$C_NODEBYNAME,    ! Entity code
      0432  2                              NML_ZERO_NODE,       ! Routine address
      0433  2                              .NML$GB_ENTITY_FORMAT, ! Id (node name) length
      0434  2                              NML$AB_ENTITY_ID);   ! Id address
      0435  2
      0436  2      [OTHERWISE]:
      0437  2          NML$ERROR_2 (NMA$C_STS_IDE, NMA$C_ENT_NOD); ! Option error
      0438  2      TES;
      0439  2
      0440  1  END;                               ! End of NML_CALL_ZERO_NODE



                                       001C 00000 NML_CALL_ZERO_NODE:
                                                       .WORD   Save R2,R3,R4                          ; 0374
              54 00000000G   00   9E 00002             MOVAB   NML$AB_ENTITY_ID, R4                   ;
              53 00000000V   00   9E 00009             MOVAB   NML_ZERO_NODE, R3                      ;
                             7E   D4 00010             CLRL    EXEC_ADR                               ; 0401
              52 00000000G   00   98 00012             CVTBL   NML$GB_ENTITY_FORMAT, R2               ; 0402
           FF 8F             52   91 00019             CMPB    R2, #-1                                ; 0404
                             0D   12 0001D             BNEQ    1$                                     ;
                             7E   7C 0001F             CLRQ    -(SP)                                  ; 0405
                 00000000V   00   9F 00021             PUSHAB  NML_ZEROKNONODES                       ;
                        04   AC   DD 00027             PUSHL   ENTITY                                 ;
                             32   11 0002A             BRB     5$                                     ;
                             52   D5 0002C 1$:         TSTL    R2                                     ; 0410
                             1A   12 0002E             BNEQ    4$                                     ;
              07        04   AC   D1 00030             CMPL    ENTITY, #7                             ; 0412
                             0A   12 00034             BNEQ    3$                                     ;
                             5E   DD 00036 2$:         PUSHL   SP                                     ; 0413
                             02   DD 00038             PUSHL   #2                                     ;
                             53   DD 0003A             PUSHL   R3                                     ;
                             07   DD 0003C             PUSHL   #7                                     ;
                             1E   11 0003E             BRB     5$                                     ;
                             54   DD 00040 3$:         PUSHL   R4                                     ; 0418
                             02   DD 00042             PUSHL   #2                                     ;
                             53   DD 00044             PUSHL   R3                                     ;
                             03   DD 00046             PUSHL   #3                                     ;
                             14   11 00048             BRB     5$                                     ;
              06             52   91 0004A 4$:         CMPB    R2, #6                                 ; 0424
                             17   1A 0004D             BGTRU   6$                                     ;
              07 00000000G   00   D1 0004F             CMPL    NML$GL_NML_ENTITY, #7                  ; 0425
                             DE   13 00056             BEQL    2$                                     ;
                             14   BB 00058             PUSHR   #^M<R2,R4>                             ; 0433
                             53   DD 0005A             PUSHL   R3                                     ; 0431
                             04   DD 0005C             PUSHL   #4                                     ;
       00000000V  00         04   FB 0005E 5$:         CALLS   #4, NML_ZEROPLURAL                     ;
                                  04 00065             RET                                            ; 0425
                             7E   D4 00066 6$:         CLRL    -(SP)                                  ; 0437
              7E             09   CE 00068             MNEGL   #9, -(SP)                              ;
       00000000G  00         02   FB 0006B             CALLS   #2, NML$ERROR_2                        ;
                                  04 00072             RET                                            ; 0440

; Routine Size:  115 bytes,    Routine Base:  $CODE$ + 0091
```

```
;   447          0441  1 %SBTTL 'NML_ZEROPLURAL  Zero plural entity counters'
;   448          0442  1 ROUTINE NML_ZEROPLURAL (ENTITY, RTN, PRM1, PRM2) : NOVALUE =
;   449          0443  1
;   450          0444  1 !++
;   451          0445  1 ! FUNCTIONAL DESCRIPTION:
;   452          0446  1 !
;   453          0447  1 !       This routine frames the response messages with 'more' and
;   454          0448  1 !       'done' messages and calls the specified routine.
;   455          0449  1 !
;   456          0450  1 ! FORMAL PARAMETERS:
;   457          0451  1 !
;   458          0452  1 !       ENTITY          Entity Table index for the entity (NML$C_...)
;   459          0453  1 !       RTN             Address of entity routine to be called.
;   460          0454  1 !       PRM1            Routine parameter value.
;   461          0455  1 !       PRM2            Routine parameter value.
;   462          0456  1 !
;   463          0457  1 ! SIDE EFFECTS:
;   464          0458  1 !
;   465          0459  1 !       A 'more' message is sent and then a 'done' message is signalled
;   466          0460  1 !       following a return or signal from the specified routine.
;   467          0461  1 !
;   468          0462  1 !--
;   469          0463  1
;   470          0464  2 BEGIN
;   471          0465  2
;   472          0466  2 LOCAL
;   473          0467  2     MSG_SIZE;
;   474          0468  2
;   475          0469  2 !
;   476          0470  2 ! Send success with multiple responses message.
;   477          0471  2 !
;   478          0472  2 NML$BLD_REPLY (UPLIT(0, NMA$C_STS_MOR), MSG_SIZE); ! Build message
;   479          0473  2 NML$SEND (NML$AB_SNDBUFFER, .MSG_SIZE); ! Send it
;   480          0474  2 !
;   481          0475  2 ! Enable condition handler to allow done message to be sent.
;   482          0476  2 !
;   483          0477  2 LIB$ESTABLISH (NML$MAINHANDLER);
;   484          0478  2 !
;   485          0479  2 ! Call entity-specific routine.
;   486          0480  2 !
;   487          0481  2 (.RTN) (.ENTITY, .PRM1, .PRM2);
;   488          0482  2 !
;   489          0483  2 ! Signal done message.
;   490          0484  2 !
;   491          0485  2 LIB$REVERT ();                  ! Disable condition handler
;   492          0486  2 NML$ERROR_1 (NMA$C_STS_DON);    ! Signal no more responses
;   493          0487  2
;   494          0488  1 END;                            ! End of NML_ZEROPLURAL


                                                        .PSECT  $PLIT$,NOWRT,NOEXE,2

                                00000002  00000000  0004C P.AAS:  .LONG   0, 2                                                ;
```

```
                                                        .PSECT  $CODE$,NOWRT,2

                                                0000 00000 NML_ZEROPLURAL:
                                                           .WORD   Save nothing                                         ; 0442
                                 5E                 04   C2 00002          SUBL2   #4, SP                               ;
                                                    5E   DD 00005          PUSHL   SP                                   ; 0472
                                    00000000'       00   9F 00007          PUSHAB  P.AAS                                ;
                          00000000G  00                 02   FB 0000D          CALLS   #2, NML$BLD_REPLY                ;
                                                    6E   DD 00014          PUSHL   MSG_SIZE                             ; 0473
                                    00000000G       00   9F 00016          PUSHAB  NML$AB_SNDBUFFER                     ;
                          00000000G  00                 02   FB 0001C          CALLS   #2, NML$SEND                     ;
                                    00000000G       00   9F 00023          PUSHAB  NML$MAINHANDLER                      ; 0477
                          00000000G  00                 01   FB 00029          CALLS   #1, LIB$ESTABLISH                ;
                                 7E         0C      AC   7D 00030          MOVQ    PRM1, -(SP)                          ; 0481
                                            04      AC   DD 00034          PUSHL   ENTITY                               ;
                                08  BC                 03   FB 00037          CALLS   #3, @RTN                         ;
                          00000000G  00                 00   FB 0003B          CALLS   #0, LIB$REVERT                   ; 0485
                                 7E         80      8F   98 00042          CVTBL   #-128, -(SP)                         ; 0486
                          00000000G  00                 01   FB 00046          CALLS   #1, NML$ERROR_1                  ;
                                                              04 0004D          RET                                      ; 0488

; Routine Size:  78 bytes,    Routine Base:  $CODE$ + 0104

;  495          0489  1
```

```
;  497          0490  1 %SBTTL 'NML_ZERO_KNOWN   Zero known entity counters'
;  498          0491  1 ROUTINE NML_ZERO_KNOWN (ENTITY, DUM1, DUM2) : NOVALUE =
;  499          0492  1
;  500          0493  1 !++
;  501          0494  1 ! FUNCTIONAL DESCRIPTION:
;  502          0495  1 !
;  503          0496  1 !       This routine clears the counters in the volatile data base entries
;  504          0497  1 !       for known entities of the type specified.
;  505          0498  1 !
;  506          0499  1 ! FORMAL PARAMETERS:
;  507          0500  1 !
;  508          0501  1 !       ENTITY          Index into Entity Table for entity (NML$C_...)
;  509          0502  1 !       DUM1            Not used.
;  510          0503  1 !       DUM2            Not used.
;  511          0504  1 !
;  512          0505  1 ! SIDE EFFECTS:
;  513          0506  1 !
;  514          0507  1 !       Zero or more response messages will be sent.
;  515          0508  1 !
;  516          0509  1 !--
;  517          0510  1
;  518          0511  2 BEGIN
;  519          0512  2
;  520          0513  2 LOCAL
;  521          0514  2     BUFEND,
;  522          0515  2     DUMDSC : REF DESCRIPTOR,    ! Dummy table descriptor
;  523          0516  2     ENTLEN,                     ! DNA line name length
;  524          0517  2     LENGTH,
;  525          0518  2     LISDSC : DESCRIPTOR,        ! List buffer descriptor
;  526          0519  2     ENTPTR,                     ! Pointer to entity id for response
;  527          0520  2     MSGSIZE,                ! Response message size
;  528          0521  2     NFBDSC : REF DESCRIPTOR,    ! Descriptor for NFB
;  529          0522  2     P2DSC  : DESCRIPTOR,        ! P2 buffer descriptor
;  530          0523  2     PTR,
;  531          0524  2     STATUS,
;  532          0525  2     STRTFLG;
;  533          0526  2 !
;  534          0527  2 ! Get a list of all entities in the volatile data base.
;  535          0528  2 !
;  536          0529  2 STRTFLG = FALSE;
;  537          0530  2
;  538          0531  2 WHILE NML$GET_ENTITY_IDS (.ENTITY, NMA$C_ENT_KNO, 0, .STRTFLG, LISDSC) DO
;  539          0532  3     BEGIN
;  540          0533  3     STRTFLG = TRUE;
;  541          0534  3     !
;  542          0535  3     ! Zero counters for every entity in the list.
;  543          0536  3     !
;  544          0537  3     BUFEND = .LISDSC [DSC$A_POINTER] + .LISDSC [DSC$W_LENGTH];
;  545          0538  3     PTR = .LISDSC [DSC$A_POINTER];
;  546          0539  3
;  547          0540  3     WHILE .PTR LSSA .BUFEND DO
;  548          0541  4         BEGIN
;  549          0542  4         LENGTH = .(.PTR)<0,16>;
;  550          0543  4         PTR = .PTR + 2;
;  551          0544  4         !
;  552          0545  4         ! Get NFB and P2 buffer.
;  553          0546  4         !
```

```
;   554          0547  4          NML$GETINFTABS (.ENTITY, NML$C_ZERO, NFBDSC, DUMDSC, 0);
;   555          0548  4          NML$BLDP2 (.LENGTH, .PTR, -1, 0, NML$Q_P2BFDSC, P2DSC);
;   556          0549  4
;   557          0550  4          !
;   558          0551  4          ! Initialize message flags and status.
;   559          0552  4          !
;   560          0553  4          NML$AB_MSGBLOCK [MSB$L_FLAGS] = 0;
;   561          0554  4          NML$AB_MSGBLOCK [MSB$B_CODE] = NMA$C_STS_SUC;
;   562          0555  4          !
;   563          0556  4          ! Zero the counters for the specified entity.
;   564          0557  4          !
;   565          0558  4          NML$NETQIO (.NFBDSC, P2DSC, 0, 0);
;   566          0559  4          !
;   567          0560  4          ! Move the entity ID into the entity buffer.
;   568          0561  4          !
;   569          0562  4          ENTPTR = .NML$Q_ENTBFDSC [DSC$A_POINTER];
;   570          0563  4          CH$WCHAR_A (.LENGTH, ENTPTR);
;   571          0564  4          CH$MOVE (.LENGTH, .PTR, .ENTPTR);
;   572          0565  4          NML$Q_ENTBFDSC [DSC$W_LENGTH] = .LENGTH + 1;
;   573          0566  4          !
;   574          0567  4          ! Add line id to response message.
;   575          0568  4          !
;   576          0569  4          NML$AB_MSGBLOCK [MSB$V_ENTD_FLD] = 1;
;   577          0570  4          NML$AB_MSGBLOCK [MSB$A_ENTITY] = NML$Q_ENTBFDSC;
;   578          0571  4          !
;   579          0572  4          ! Build and send the response message.
;   580          0573  4          !
;   581          0574  4          NML$BLD_REPLY (NML$AB_MSGBLOCK, MSGSIZE);
;   582          0575  4          NML$SEND (NML$AB_SNDBUFFER, .MSGSIZE);
;   583          0576  4
;   584          0577  3          PTR = .PTR + .LENGTH;    ! Advance pointer
;   585          0578  2          END;
;   586          0579  2
;   587          0580  1 END;                              ! End of NML_ZERO_KNOWN


                                 0FFC 00000 NML_ZERO_KNOWN:
                                                .WORD   Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11          ; 0491
                      5B 00000000G   00  9E 00002       MOVAB   NML$AB_MSGBLOCK, R11                  ;
                      5E             1C  C2 00009       SUBL2   #28, SP                               ;
                                     59  D4 0000C       CLRL    STRTFLG                               ; 0529
                               14    AE  9F 0000E 1$:   PUSHAB  LISDSC                                ; 0531
                                     59  DD 00011       PUSHL   STRTFLG                               ;
                                     7E  D4 00013       CLRL    -(SP)                                 ;
                      7E             01  CE 00015       MNEGL   #1, -(SP)                             ;
                               04    AC  DD 00018       PUSHL   ENTITY                                ;
                00000000G      00     05  FB 0001B       CALLS   #5, NML$GET_ENTITY_IDS                ;
                               01     50  E8 00022       BLBS    R0, 2$                                ;
                                     04  00025       RET                                           ;
                      59             01  D0 00026 2$:   MOVL    #1, STRTFLG                           ; 0533
                      5A       14    AE  3C 00029       MOVZWL  LISDSC, BUFEND                        ; 0537
                      5A       18    AE  C0 0002D       ADDL2   LISDSC+4, BUFEND                      ;
                      56       18    AE  D0 00031       MOVL    LISDSC+4, PTR                         ; 0538
                      5A             56  D1 00035 3$:   CMPL    PTR, BUFEND                           ; 0540
```

```
                                        D4  1E 00038            BGEQU   1$                                              ;
                          57            86  3C 0003A            MOVZWL  (PTR)+, LENGTH                                  ; 0542
                                        7E  D4 0003D            CLRL    -(SP)                                           ; 0547
                                  04    AE  9F 0003F            PUSHAB  DUMDSC                                          ;
                                  0C    AE  9F 00042            PUSHAB  NFBDSC                                          ;
                                        05  DD 00045            PUSHL   #5                                              ;
                                  04    AC  DD 00047            PUSHL   ENTITY                                          ;
                 00000000G  00          05  FB 0004A            CALLS   #5, NML$GETINFTABS                              ;
                                  0C    AE  9F 00051            PUSHAB  P2DSC                                           ; 0548
                            00000000'   00  9F 00054            PUSHAB  NML$Q_P2BFDSC                                   ;
                                        7E  D4 0005A            CLRL    -(SP)                                           ;
                          7E            01  CE 0005C            MNEGL   #1, -(SP)                                       ;
                                        56  DD 0005F            PUSHL   PTR                                             ;
                                        57  DD 00061            PUSHL   LENGTH                                          ;
                 00000000G  00          06  FB 00063            CALLS   #6, NML$BLDP2                                   ;
                                        6B  D4 0006A            CLRL    NML$AB_MSGBLOCK                                 ; 0552
                      04    AB          01  90 0006C            MOVB    #1, NML$AB_MSGBLOCK+4                           ; 0553
                                        7E  7C 00070            CLRQ    -(SP)                                           ; 0557
                                  14    AE  9F 00072            PUSHAB  P2DSC                                           ;
                                  10    AE  DD 00075            PUSHL   NFBDSC                                          ;
                 00000000G  00          04  FB 00078            CALLS   #4, NML$NETQIO                                  ;
                          58 00000000'  00  D0 0007F            MOVL    NML$Q_ENTBFDSC+4, ENTPTR                        ; 0561
                          88            57  90 00086            MOVB    LENGTH, (ENTPTR)+                               ; 0562
                    68    66            57  28 00089            MOVC3   LENGTH, (PTR), (ENTPTR)                         ; 0563
         00000000'  00    57            01  A1 0008D            ADDW3   #1, LENGTH, NML$Q_ENTBFDSC                      ; 0564
                          6B            10  88 00095            BISB2   #16, NML$AB_MSGBLOCK                            ; 0568
                      14  AB 00000000'  00  9E 00098            MOVAB   NML$Q_ENTBFDSC, NML$AB_MSGBLOCK+20              ; 0569
                                  08    AE  9F 000A0            PUSHAB  MSGSIZE                                         ; 0573
                                        5B  DD 000A3            PUSHL   R11                                             ;
                 00000000G  00          02  FB 000A5            CALLS   #2, NML$BLD_REPLY                               ;
                                  08    AE  DD 000AC            PUSHL   MSGSIZE                                         ; 0574
                            00000000G   00  9F 000AF            PUSHAB  NML$AB_SNDBUFFER                                ;
                 00000000G  00          02  FB 000B5            CALLS   #2, NML$SEND                                    ;
                          56            57  C0 000BC            ADDL2   LENGTH, PTR                                     ; 0576
                                      FF73  31 000BF            BRW     3$                                              ; 0540
                                            04 000C2            RET                                                     ; 0580

; Routine Size:  195 bytes,    Routine Base:  $CODE$ + 0152
```

```
;   589          0581  1 %SBTTL 'NML_ZEROKNONODES  Zero known node counters'
;   590          0582  1 ROUTINE NML_ZEROKNONODES (DUM0, DUM1, DUM2) : NOVALUE =
;   591          0583  1
;   592          0584  1 !++
;   593          0585  1 ! FUNCTIONAL DESCRIPTION:
;   594          0586  1 !
;   595          0587  1 !       This routine zeros counters for all nodes in the volatile data base.
;   596          0588  1 !
;   597          0589  1 ! FORMAL PARAMETERS:
;   598          0590  1 !
;   599          0591  1 !       DUM0            Not used.
;   600          0592  1 !       DUM1            Not used.
;   601          0593  1 !       DUM2            Not used.
;   602          0594  1 !
;   603          0595  1 ! SIDE EFFECTS:
;   604          0596  1 !
;   605          0597  1 !       Zero or more response messages will be sent as a result of
;   606          0598  1 !       the routines that are called.
;   607          0599  1 !
;   608          0600  1 !--
;   609          0601  1
;   610          0602  2 BEGIN
;   611          0603  2
;   612          0604  2 LOCAL
;   613          0605  2     EXEC_ADR: WORD;
;   614          0606  2 !
;   615          0607  2 ! Return executor node.
;   616          0608  2 !
;   617          0609  2 EXEC_ADR = 0;
;   618          0610  2 NML_ZERO_NODE (NML$C_EXECUTOR,
;   619          0611  2                 2,                  ! Id string length
;   620          0612  2                 EXEC_ADR);          ! Executor node address
;   621          0613  2 !
;   622          0614  2 ! Return remote nodes.
;   623          0615  2 !
;   624          0616  2 NML_ZEROREMOTES ();
;   625          0617  2
;   626          0618  1 END;                                 ! End of NML_ZEROKNONODES


                                        0000 00000 NML_ZEROKNONODES:
                                                   .WORD   Save nothing                    ; 0582
                            5E          04   C2 00002      SUBL2   #4, SP                  ;
                                        6E   B4 00005      CLRW    EXEC_ADR                ; 0609
                                        5E   DD 00007      PUSHL   SP                      ; 0610
                                        02   DD 00009      PUSHL   #2                      ;
                                        07   DD 0000B      PUSHL   #7                      ;
                    00000000V   00      03   FB 0000D      CALLS   #3, NML_ZERO_NODE       ;
                    00000000V   00      00   FB 00014      CALLS   #0, NML_ZEROREMOTES     ; 0616
                                            04 0001B      RET                             ; 0618

; Routine Size:  28 bytes,    Routine Base:  $CODE$ + 0215
```

```
;  628     0619  1 %SBTTL 'NML_ZERO_ENTITY  Zero entity counters'
;  629     0620  1 ROUTINE NML_ZERO_ENTITY (ENTITY, LEN, ADR) : NOVALUE =
;  630     0621  1
;  631     0622  1 !++
;  632     0623  1 ! FUNCTIONAL DESCRIPTION:
;  633     0624  1 !
;  634     0625  1 !
;  635     0626  1 ! FORMAL PARAMETERS:
;  636     0627  1 !
;  637     0628  1 !       ENTITY          Entity Table index (NML$C_...)
;  638     0629  1 !       LEN             Length of entity id string.
;  639     0630  1 !       ADR             Address of entity id string.
;  640     0631  1 !
;  641     0632  1 ! SIDE EFFECTS:
;  642     0633  1 !
;  643     0634  1 !       A response message will be sent.
;  644     0635  1 !
;  645     0636  1 !--
;  646     0637  1
;  647     0638  2 BEGIN
;  648     0639  2
;  649     0640  2 LOCAL
;  650     0641  2     DUMDSC : REF DESCRIPTOR,    ! Dummy table descriptor
;  651     0642  2     MSGSIZE,                    ! Length of response message
;  652     0643  2     NEWLEN,                         ! Mapped (VMS) line name length
;  653     0644  2     NFBDSC : REF DESCRIPTOR,    ! NFB descriptor
;  654     0645  2     P2DSC  : DESCRIPTOR;                ! Descriptor for P2 buffer
;  655     0646  2 !
;  656     0647  2 ! Get NFB and P2 buffer.
;  657     0648  2 !
;  658     0649  2 NML$GETINFTABS (.ENTITY, NML$C_ZERO, NFBDSC, DUMDSC, 0);
;  659     0650  2 !
;  660     0651  2 ! X25 and X29 Server databases have only one entry.  So always do a
;  661     0652  2 ! wildcard zero of these databases.
;  662     0653  2 !
;  663     0654  2 IF .ENTITY EQL NML$C_X25_SERV OR
;  664     0655  2    .ENTITY EQL NML$C_X29_SERV THEN
;  665     0656  2     LEN = -1;
;  666     0657  2
;  667     0658  2 NML$BLDP2 (.LEN, .ADR, -1, 0, NML$Q_P2BFDSC, P2DSC);
;  668     0659  2 !
;  669     0660  2 ! Initialize message flags and status.
;  670     0661  2 !
;  671     0662  2 NML$AB_MSGBLOCK [MSB$L_FLAGS] = 0;
;  672     0663  2 NML$AB_MSGBLOCK [MSB$B_CODE] = NMA$C_STS_SUC;
;  673     0664  2 !
;  674     0665  2 ! Zero the counters for the specified line.
;  675     0666  2 !
;  676     0667  2 NML$NETQIO (.NFBDSC, P2DSC, 0, 0);
;  677     0668  2 !
;  678     0669  2 ! Build and send the response message.
;  679     0670  2 !
;  680     0671  2 NML$BLD_REPLY (NML$AB_MSGBLOCK, MSGSIZE);
;  681     0672  2 NML$SEND (NML$AB_SNDBUFFER, .MSGSIZE);
;  682     0673  2
;  683     0674  1 END;                                ! End of NML_ZERO_ENTITY
```

```
                                0004 00000 NML_ZERO_ENTITY:
                                           .WORD   Save R2                                                 ; 0620
                 52 00000000G   00   9E 00002          MOVAB   NML$AB_MSGBLOCK, R2
                 5E             14   C2 00009          SUBL2   #20, SP
                                7E   D4 0000C          CLRL    -(SP)                                       ; 0649
                          04    AE   9F 0000E          PUSHAB  DUMDSC
                          0C    AE   9F 00011          PUSHAB  NFBDSC
                                05   DD 00014          PUSHL   #5
                          04    AC   DD 00016          PUSHL   ENTITY
          00000000G       00        05   FB 00019     CALLS   #5, NML$GETINFTABS
                 11             04   AC   D1 00020     CMPL    ENTITY, #17                                 ; 0654
                                06   13 00024          BEQL    1$
                 15             04   AC   D1 00026     CMPL    ENTITY, #21                                 ; 0655
                                04   12 0002A          BNEQ    2$
              08 AC                   01   CE 0002C 1$: MNEGL   #1, LEN                                    ; 0656
                             0C    AE   9F 00030 2$:    PUSHAB  P2DSC                                       ; 0658
                    00000000'      00   9F 00033     PUSHAB  NML$Q_P2BFDSC
                                7E   D4 00039          CLRL    -(SP)
                 7E                 01   CE 0003B     MNEGL   #1, -(SP)
                 7E             08  AC   7D 0003E     MOVQ    LEN, -(SP)
          00000000G       00        06   FB 00042     CALLS   #6, NML$BLDP2
                                62   D4 00049          CLRL    NML$AB_MSGBLOCK                             ; 0662
              04 A2                 01   90 0004B     MOVB    #1, NML$AB_MSGBLOCK+4                       ; 0663
                                7E   7C 0004F          CLRQ    -(SP)                                       ; 0667
                             14    AE   9F 00051          PUSHAB  P2DSC
                             10    AE   DD 00054          PUSHL   NFBDSC
          00000000G       00        04   FB 00057     CALLS   #4, NML$NETQIO
                             08    AE   9F 0005E          PUSHAB  MSGSIZE                                 ; 0671
                                52   DD 00061          PUSHL   R2
          00000000G       00        02   FB 00063     CALLS   #2, NML$BLD_REPLY
                             08    AE   DD 0006A          PUSHL   MSGSIZE                                 ; 0672
                    00000000G      00   9F 0006D     PUSHAB  NML$AB_SNDBUFFER
          00000000G       00        02   FB 00073     CALLS   #2, NML$SEND
                                     04   0007A          RET                                             ; 0674

; Routine Size:  123 bytes,    Routine Base:  $CODE$ + 0231
```

```
;  685          0675  1 %SBTTL 'NML_ZERO_NODE  Zero node counters'
;  686          0676  1 ROUTINE NML_ZERO_NODE (ENTITY, LEN, ADR) : NOVALUE =
;  687          0677  1
;  688          0678  1 !++
;  689          0679  1 ! FUNCTIONAL DESCRIPTION:
;  690          0680  1 !
;  691          0681  1 !
;  692          0682  1 ! FORMAL PARAMETERS:
;  693          0683  1 !
;  694          0684  1 !       ENTITY          Entity Table index (NML$C...)
;  695          0685  1 !       LEN             Length of entity id string.
;  696          0686  1 !       ADR             Address of entity id string.
;  697          0687  1 !
;  698          0688  1 ! SIDE EFFECTS:
;  699          0689  1 !
;  700          0690  1 !       A response message will be sent.
;  701          0691  1 !
;  702          0692  1 !--
;  703          0693  1
;  704          0694  2 BEGIN
;  705          0695  2
;  706          0696  2 LOCAL
;  707          0697  2     MSGSIZE,                        ! Response message size
;  708          0698  2     NFBDSC : REF DESCRIPTOR,        ! NFB descriptor
;  709          0699  2     P2DSC  : DESCRIPTOR,                    ! P2 parameter descriptor
;  710          0700  2     DUMDSC : REF DESCRIPTOR;        ! Dummy table descriptor
;  711          0701  2
;  712          0702  2 !
;  713          0703  2 ! Get the NFB and P2 buffer.
;  714          0704  2 !
;  715          0705  2 NML$GETINFTABS (.ENTITY, NML$C_ZERO, NFBDSC, DUMDSC, 0);
;  716          0706  2 IF .ENTITY NEQ NML$C_NODEBYNAME THEN
;  717          0707  2     !
;  718          0708  2     ! Zero executor node or node specified by address in the NICE command.
;  719          0709  2     !
;  720          0710  2     NML$BLDP2 (0, .(.ADR)<0,16>, -1, 0, NML$Q_P2BFDSC, P2DSC)
;  721          0711  2 ELSE
;  722          0712  2     !
;  723          0713  2     ! Zero node specified by name in the NICE command.
;  724          0714  2     !
;  725          0715  2     NML$BLDP2 (.LEN, .ADR, -1, 0, NML$Q_P2BFDSC, P2DSC);
;  726          0716  2
;  727          0717  2 !
;  728          0718  2 ! Initialize message flags and status.
;  729          0719  2 !
;  730          0720  2 NML$AB_MSGBLOCK [MSB$L_FLAGS] = 0;
;  731          0721  2 NML$AB_MSGBLOCK [MSB$B_CODE] = NMA$C_STS_SUC;
;  732          0722  2 !
;  733          0723  2 ! Zero the counters for the specified node.
;  734          0724  2 !
;  735          0725  2 NML$NETQIO (.NFBDSC, P2DSC, 0, 0);
;  736          0726  2 !
;  737          0727  2 ! If zeroing the executor node's counters, then the excutor's entity ID
;  738          0728  2 ! must be returned in the NICE response message.  Add it to the message.
;  739          0729  2 !
;  740          0730  2 IF .ENTITY EQL NML$C_EXECUTOR THEN
;  741          0731  3     BEGIN
```

```
;  742     0732  3     !
;  743     0733  3     ! Add the executor id to the entity buffer.
;  744     0734  3     !
;  745     0735  3     NML$GETEXEID (NML$Q_ENTBFDSC, NML$Q_ENTBFDSC [DSC$W_LENGTH]);
;  746     0736  3     !
;  747     0737  3     ! Add the entity id to the message.
;  748     0738  3     !
;  749     0739  3     NML$AB_MSGBLOCK [MSB$V_ENTD_FLD] = 1;
;  750     0740  3     NML$AB_MSGBLOCK [MSB$A_ENTITY] = NML$Q_ENTBFDSC;
;  751     0741  2     END;
;  752     0742  2 !
;  753     0743  2 ! Build and send the response message.
;  754     0744  2 !
;  755     0745  2 NML$BLD_REPLY (NML$AB_MSGBLOCK, MSGSIZE);
;  756     0746  2 NML$SEND (NML$AB_SNDBUFFER, .MSGSIZE);
;  757     0747  2
;  758     0748  1 END;                                ! End of NML_ZERO_NODE


                                001C 00000 NML_ZERO_NODE:
                                           .WORD    Save R2,R3,R4                                   ; 0676
                    54 00000000'   00  9E 00002    MOVAB    NML$Q_P2BFDSC, R4                      ;
                    53 00000000'   00  9E 00009    MOVAB    NML$Q_ENTBFDSC, R3                     ;
                    52 00000000G   00  9E 00010    MOVAB    NML$AB_MSGBLOCK, R2                    ;
                    5E             14  C2 00017    SUBL2    #20, SP                                ;
                                   7E  D4 0001A    CLRL     -(SP)                                  ; 0705
                                04 AE  9F 0001C    PUSHAB   DUMDSC                                 ;
                                0C AE  9F 0001F    PUSHAB   NFBDSC                                 ;
                                   05  DD 00022    PUSHL    #5                                     ;
                                04 AC  DD 00024    PUSHL    ENTITY                                 ;
                00000000G   00     05  FB 00027    CALLS    #5, NML$GETINFTABS                     ;
                            04 04 AC  D1 0002E    CMPL     ENTITY, #4                             ; 0706
                                   12  13 00032    BEQL     1$                                     ;
                                0C AE  9F 00034    PUSHAB   P2DSC                                  ; 0710
                                   54  DD 00037    PUSHL    R4                                     ;
                                   7E  D4 00039    CLRL     -(SP)                                  ;
                                7E     01  CE 0003B    MNEGL    #1, -(SP)                          ;
                                7E 0C  BC  3C 0003E    MOVZWL   @ADR, -(SP)                        ;
                                   7E  D4 00042    CLRL     -(SP)                                  ;
                                   0E  11 00044    BRB      2$                                     ;
                                0C AE  9F 00046 1$: PUSHAB   P2DSC                                  ; 0715
                                   54  DD 00049    PUSHL    R4                                     ;
                                   7E  D4 0004B    CLRL     -(SP)                                  ;
                                7E     01  CE 0004D    MNEGL    #1, -(SP)                          ;
                                7E 08  AC  7D 00050    MOVQ     LEN, -(SP)                         ;
                00000000G   00     06  FB 00054 2$: CALLS    #6, NML$BLDP2                          ;
                                   62  D4 0005B    CLRL     NML$AB_MSGBLOCK                        ; 0720
                            04 A2      01  90 0005D    MOVB     #1, NML$AB_MSGBLOCK+4                  ; 0721
                                   7E  7C 00061    CLRQ     -(SP)                                  ; 0725
                                14 AE  9F 00063    PUSHAB   P2DSC                                  ;
                                10 AE  DD 00066    PUSHL    NFBDSC                                 ;
                00000000G   00     04  FB 00069    CALLS    #4, NML$NETQIO                         ;
                            07 04 AC  D1 00070    CMPL     ENTITY, #7                             ; 0730
                                   12  12 00074    BNEQ     3$                                     ;
```

```
                                 53  DD 00076          PUSHL   R3                                                      ; 0735
                                 53  DD 00078          PUSHL   R3                                                      ;
                    00000000G    00  02  FB 0007A      CALLS   #2, NML$GETEXEID                                        ;
                                 62  10  88 00081      BISB2   #16, NML$AB_MSGBLOCK                                    ; 0739
                          14     A2  63  9E 00084      MOVAB   NML$Q_ENTBFDSC, NML$AB_MSGBLOCK+20                      ; 0740
                                08   AE  9F 00088 3$:   PUSHAB  MSGSIZE                                                ; 0745
                                 52  DD 0008B          PUSHL   R2                                                      ;
                    00000000G    00  02  FB 0008D      CALLS   #2, NML$BLD_REPLY                                       ;
                                08   AE  DD 00094      PUSHL   MSGSIZE                                                 ; 0746
                            00000000G  00  9F 00097      PUSHAB  NML$AB_SNDBUFFER                                        ;
                    00000000G    00  02  FB 0009D      CALLS   #2, NML$SEND                                            ;
                                     04  000A4          RET                                                             ; 0748

; Routine Size:  165 bytes,    Routine Base:  $CODE$ + 02AC
```

```
;  760     0749  1 %SBTTL 'NML_ZEROREMOTES  Zero known node counters'
;  761     0750  1 ROUTINE NML_ZEROREMOTES: NOVALUE =
;  762     0751  1
;  763     0752  1 !++
;  764     0753  1 ! FUNCTIONAL DESCRIPTION:
;  765     0754  1 !
;  766     0755  1 !       This routine zeros the counters for all remote nodes.
;  767     0756  1 !
;  768     0757  1 ! SIDE EFFECTS:
;  769     0758  1 !
;  770     0759  1 !       Zero or more response messages will be sent.
;  771     0760  1 !
;  772     0761  1 !--
;  773     0762  1
;  774     0763  2 BEGIN
;  775     0764  2
;  776     0765  2 LOCAL
;  777     0766  2     BUFEND,
;  778     0767  2     DUMDSC : REF DESCRIPTOR,    ! Dummy table descriptor
;  779     0768  2     ENTPTR,                     ! Pointer to node id in response
;  780     0769  2     LENGTH,
;  781     0770  2     LISDSC : DESCRIPTOR,
;  782     0771  2     MSGSIZE,
;  783     0772  2     NFBDSC : REF DESCRIPTOR,    ! NFB descriptor
;  784     0773  2     P2DSC  : DESCRIPTOR,        ! Descriptor for P2 buffer
;  785     0774  2     PTR,
;  786     0775  2     STATUS,
;  787     0776  2     STRTFLG;
;  788     0777  2 !
;  789     0778  2 ! Get the list of known remote nodes.
;  790     0779  2 !
;  791     0780  2 STRTFLG = FALSE;
;  792     0781  2
;  793     0782  2 WHILE NML$GET_ENTITY_IDS (NML$C_NODE, NMA$C_ENT_KNO, 0, .STRTFLG, LISDSC) DO
;  794     0783  3     BEGIN
;  795     0784  3
;  796     0785  3     STRTFLG = TRUE;
;  797     0786  3     !
;  798     0787  3     ! Zero counters for all nodes in the list.
;  799     0788  3     !
;  800     0789  3     PTR = .LISDSC [DSC$A_POINTER];
;  801     0790  3     BUFEND = .LISDSC [DSC$A_POINTER] + .LISDSC [DSC$W_LENGTH];
;  802     0791  3     LENGTH = 2;
;  803     0792  3     NML$GETINFTABS (NML$C_NODE, NML$C_ZERO, NFBDSC, DUMDSC, 0);
;  804     0793  3
;  805     0794  3     WHILE .PTR LSSA .BUFEND DO
;  806     0795  4         BEGIN
;  807     0796  4         PTR = .PTR +4;          ! Skip loopnode flag.
;  808     0797  4         NML$BLDP2 (0, .(.PTR)<0,16>, -1, 0, NML$Q_P2BFDSC, P2DSC);
;  809     0798  4
;  810     0799  4         NML$AB_MSGBLOCK [MSB$L_FLAGS] = 0;
;  811     0800  4         NML$AB_MSGBLOCK [MSB$B_CODE] = NMA$C_STS_SUC;
;  812     0801  4
;  813     0802  4         NML$NETQIO (.NFBDSC, P2DSC, 0, 0);
;  814     0803  4         !
;  815     0804  4         ! Move node address and name into entity id buffer and
;  816     0805  4         ! advance pointer.
```

```
;   817          0806  4          !
;   818          0807  4          ENTPTR = CH$MOVE (2,
;   819          0808  4                           .PTR,
;   820          0809  4                           .NML$Q_ENTBFDSC [DSC$A_POINTER]);
;   821          0810  4          PTR = .PTR + 4;
;   822          0811  4          LENGTH = .(.PTR)<0,16>;
;   823          0812  4          CH$WCHAR_A (.LENGTH, ENTPTR);
;   824          0813  4          PTR = .PTR + 2;
;   825          0814  4          ENTPTR = CH$MOVE (.LENGTH, .PTR, .ENTPTR);
;   826          0815  4          PTR = .PTR + .LENGTH;
;   827          0816  4          !
;   828          0817  4          ! Add node id to message.
;   829          0818  4          !
;   830          0819  4          NML$Q_ENTBFDSC [DSC$W_LENGTH] =
;   831          0820  4                  .ENTPTR - .NML$Q_ENTBFDSC [DSC$A_POINTER];
;   832          0821  4          NML$AB_MSGBLOCK [MSB$V_ENTD_FLD] = 1;
;   833          0822  4          !
;   834          0823  4          ! Build and send the response message.
;   835          0824  4          !
;   836          0825  4          NML$BLD_REPLY (NML$AB_MSGBLOCK, MSGSIZE);
;   837          0826  4          NML$SEND (NML$AB_SNDBUFFER, .MSGSIZE);
;   838          0827  4          END
;   839          0828  2      END;
;   840          0829  2
;   841          0830  1 END;                              ! End of NML_ZEROREMOTES


                                 0FFC 00000 NML_ZEROREMOTES:
                                            .WORD   Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11          ; 0750
                      5B 00000000G   00  9E 00002         MOVAB   NML$AB_MSGBLOCK, R11
                      5E             1C  C2 00009         SUBL2   #28, SP
                                     59  D4 0000C         CLRL    STRTFLG                          ; 0780
                            14       AE  9F 0000E 1$:     PUSHAB  LISDSC                           ; 0782
                                     59  DD 00011         PUSHL   STRTFLG
                                     7E  D4 00013         CLRL    -(SP)
                      7E             01  CE 00015         MNEGL   #1, -(SP)
                                     03  DD 00018         PUSHL   #3
00000000G             00             05  FB 0001A         CALLS   #5, NML$GET_ENTITY_IDS
                      01             50  E8 00021         BLBS    R0, 2$
                                     04  00024           RET
                      59             01  D0 00025 2$:     MOVL    #1, STRTFLG                      ; 0785
                      56       18    AE  D0 00028         MOVL    LISDSC+4, PTR                    ; 0789
                      5A       14    AE  3C 0002C         MOVZWL  LISDSC, BUFEND                   ; 0790
                      5A       18    AE  C0 00030         ADDL2   LISDSC+4, BUFEND
                      58             02  D0 00034         MOVL    #2, LENGTH                       ; 0791
                                     7E  D4 00037         CLRL    -(SP)                            ; 0792
                            04       AE  9F 00039         PUSHAB  DUMDSC
                            0C       AE  9F 0003C         PUSHAB  NFBDSC
                                     05  DD 0003F         PUSHL   #5
                                     03  DD 00041         PUSHL   #3
00000000G             00             05  FB 00043         CALLS   #5, NML$GETINFTABS
                      5A             56  D1 0004A 3$:     CMPL    PTR, BUFEND                      ; 0794
                                     BF  1E 0004D         BGEQU   1$
                      56             04  C0 0004F         ADDL2   #4, PTR                          ; 0796
```

```
                                    0C   AE  9F 00052         PUSHAB  P2DSC                                    ; 0797
                          00000000'      00  9F 00055         PUSHAB  NML$Q_P2BFDSC                           ;
                                         7E  D4 0005B         CLRL    -(SP)                                   ;
                                    7E   01  CE 0005D         MNEGL   #1, -(SP)                               ;
                                    7E   66  3C 00060         MOVZWL  (PTR), -(SP)                            ;
                                         7E  D4 00063         CLRL    -(SP)                                   ;
                          00000000G  00      06  FB 00065     CALLS   #6, NML$BLDP2                           ;
                                         6B  D4 0006C         CLRL    NML$AB_MSGBLOCK                         ; 0799
                               04    AB      01  90 0006E     MOVB    #1, NML$AB_MSGBLOCK+4                   ; 0800
                                         7E  7C 00072         CLRQ    -(SP)                                   ; 0802
                                    14   AE  9F 00074         PUSHAB  P2DSC                                   ;
                                    10   AE  DD 00077         PUSHL   NFBDSC                                  ;
                          00000000G  00      04  FB 0007A     CALLS   #4, NML$NETQIO                          ;
                                57  00000000'  00  D0 00081   MOVL    NML$Q_ENTBFDSC+4, R7                    ; 0809
                                67      86  B0 00088         MOVW    (PTR)+, (R7)                            ;
                                53   02     A7  9E 0008B     MOVAB   2(R7), ENTPTR                           ;
                                56      02  C0 0008F         ADDL2   #2, PTR                                 ; 0810
                                58      86  3C 00092         MOVZWL  (PTR)+, LENGTH                          ; 0811
                                83      58  90 00095         MOVB    LENGTH, (ENTPTR)+                       ; 0812
                          63    66      58  28 00098         MOVC3   LENGTH, (PTR), (ENTPTR)                 ; 0814
                                56      58  C0 0009C         ADDL2   LENGTH, PTR                             ; 0815
                00000000'  00   53      57  A3 0009F         SUBW3   R7, ENTPTR, NML$Q_ENTBFDSC              ; 0820
                                6B      10  88 000A7         BISB2   #16, NML$AB_MSGBLOCK                    ; 0821
                                    08   AE  9F 000AA         PUSHAB  MSGSIZE                                 ; 0825
                                         5B  DD 000AD         PUSHL   R11                                     ;
                          00000000G  00      02  FB 000AF     CALLS   #2, NML$BLD_REPLY                       ;
                                    08   AE  DD 000B6         PUSHL   MSGSIZE                                 ; 0826
                                00000000G  00  9F 000B9       PUSHAB  NML$AB_SNDBUFFER                        ;
                          00000000G  00      02  FB 000BF     CALLS   #2, NML$SEND                            ;
                                         82  11 000C6         BRB     3$                                      ; 0794
                                         04  000C8         RET                                             ; 0830

; Routine Size:  201 bytes,    Routine Base:  $CODE$ + 0351
```

```
;  843          0831  1 END                                   ! End of module
;  844          0832  1
;  845          0833  0 ELUDOM
```

```
;                                   PSECT SUMMARY
;
;       Name                    Bytes                           Attributes
;
;  $OWN$                         784  NOVEC,  WRT,  RD ,NOEXE,NOSHR,  LCL,  REL,  CON,NOPIC,ALIGN(2)
;  $PLIT$                         84  NOVEC,NOWRT,  RD ,NOEXE,NOSHR,  LCL,  REL,  CON,NOPIC,ALIGN(2)
;  $CODE$                       1050  NOVEC,NOWRT,  RD ,  EXE,NOSHR,  LCL,  REL,  CON,NOPIC,ALIGN(2)
```

```
;                                 Library Statistics
;                                          --------  Symbols  --------      Pages       Processing
;       File                               Total     Loaded     Percent     Mapped      Time
;
;  _$255$DUA28:[NML.OBJ]NMLLIB.L32;1         341         33           9         27        00:00.1
;  _$255$DUA28:[SHRLIB]NMALIBRY.L32;1        887          8           0         47        00:00.2
;  _$255$DUA28:[SYSLIB]STARLET.L32;1        9776          2           0        581        00:02.2
```

```
;                                     COMMAND QUALIFIERS

;       BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS$:NMLZERO/OBJ=OBJ$:NMLZERO MSRC$:NMLZERO/UPDATE=(ENH$:NMLZERO)

; Size:         1050 code + 868 data bytes
; Run Time:       00:23.1
; Elapsed Time:   00:42.8
; Lines/CPU Min:   2162
; Lexemes/CPU-Min: 15715
; Memory Used:  147 pages
; Compilation Complete
```

NPARSE
LIS

REQUEST
MAP

OPCOM

REPLY
MAP

NMLXFER
LIS

OPCCRASH
MAP

NMLV2STA
LIS

OPCOMLIB
B32

ALLOCATE
LIS

NMLZERO
LIS

OPCOMDEF
SDL

OPCOM
MAP

OPCDEFTMP
SDL

CANCEL
LIS